

Title (en)  
WIRE HARNESS WATERPROOFING STRUCTURE

Title (de)  
WASSERDICHTHE KABELBAUMSTRUKTUR

Title (fr)  
STRUCTURE D'IMPERMÉABILISATION D'UN FAISCEAU DE CÂBLES

Publication  
**EP 2847839 B1 20180404 (EN)**

Application  
**EP 13725492 A 20130508**

Priority  
• JP 2012107892 A 20120509  
• JP 2013063474 W 20130508

Abstract (en)  
[origin: WO2013168823A1] A wire harness waterproofing structure includes a grommet 25 that includes a pipe-formed body part 35 the periphery of which is watertightly attached to a through hole 37 which is bored in a body panel 17 which separates a compartment outside part and a compartment inside part, and a small diameter tubular part 29 one end of which is connected to the pipe-formed body part 35, a wire harness 11 that includes a plurality of electric wires inserted through the tubular part in an unbound state and is wired with a predetermined height difference XI relative to the through hole 37, diameter-increased parts 33 that are provided on at least one of the electric wires to form a gap between the electric wires adjacent to the one of the electric wires.

IPC 8 full level  
**H02G 3/22** (2006.01); **B60R 16/02** (2006.01)

CPC (source: EP US)  
**B60R 16/0215** (2013.01 - EP US); **B60R 16/0222** (2013.01 - US); **H02G 3/0406** (2013.01 - US)

Citation (examination)  
JP 2008271731 A 20081106 - SUMITOMO WIRING SYSTEMS

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2013168823 A1 20131114**; CN 104272543 A 20150107; CN 104272543 B 20170623; EP 2847839 A1 20150318; EP 2847839 B1 20180404; JP 2013236489 A 20131121; JP 5957286 B2 20160727; US 10286859 B2 20190514; US 2015144397 A1 20150528

DOCDB simple family (application)  
**JP 2013063474 W 20130508**; CN 201380024487 A 20130508; EP 13725492 A 20130508; JP 2012107892 A 20120509; US 201314399397 A 20130508